

What is claimed is:

1. A bow string release for engaging and releasing a bow string, comprising:

a pivot ball mounted on a center member;

5 a pair of opposing jaws capable of receiving, at adjacent ends, the pivot ball;

a jaw cup on which outer edges of the jaws may pivot and a rearward floor for preventing the rearward movement of the jaws, said floor having a central orifice through which the center member passes;

10 a trigger mechanism operatively disposed on the release for engaging and releasing the bow string.

2. The bow string release of claim 1, the release further comprising:

a trigger force adjustment mechanism for adjusting a force necessary to pull the trigger to release the bow string.

3. The bow string release of claim 2, wherein the trigger force adjustment mechanism is manually adjustable without the use of a tool.

4. The bow string release of claim 2, the trigger force adjustment mechanism comprising:

5 at least one compression spring for developing trigger force and aiding in the closing of a locking mechanism;

an adjuster dial engaged to an adjuster and capable of being rotated thereby moving the adjuster forward or rearward;

10 the adjuster mounted rearwardly of and engaging the compression spring, for varying the compression of the compression spring, thereby altering the force necessary to pull the trigger to release the bow string.

5. The bow string release of claim 4, wherein the adjuster dial is threadably engaged with the adjuster.

6. The bow string release of claim 1, wherein the

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trigger mechanism is rotatable.

7. The bow string release of claim 1, the release further comprising a housing apparatus that carries the jaw cup.

8. The bow string release of claim 1, the release carried by a body structure selected from a group consisting of a wrist strap assembly, a glove assembly, and hand-held assembly.

9. The bow string release of claim 1, wherein the trigger force adjustment system further includes a detent assembly for maintaining accurate and repeatable adjustments of the trigger force.

10. The bow string release of claim 9, wherein the detent assembly does not produce an audible noise when the trigger force is adjusted.

11. The bow string release of claim 1, wherein the trigger mechanism includes a trigger connector having a plurality of threaded openings for receiving a trigger peg.

12. A bow string release for engaging and releasing a bow string comprising:

an axial ball housing;

a pivot ball carried by the axial ball housing;

at least two jaws carried by a jaw cup;

a trigger sleeve positioned adjacent to the jaw

cup;

a trigger ring body carried by the axial ball housing;

a locking sleeve on the axial ball housing adjacent to the trigger ring;

a spring encasing the axial ball housing between the locking sleeve and an adjuster;

an adjuster dial coupled with the threaded adjuster.

13. The bow string release of claim 12, the release further comprising a bias element between the jaws.

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15. In combination with a bow string release, a removable peg trigger coupled to a trigger body, said trigger body having at least two receivers for receiving the removable peg trigger.

17. A bow string release comprising:
a housing having an axis substantially
perpendicular to a bow string;

18. A trigger force adjustment mechanism for a bow string release comprising:

an adjuster dial coupled with the adjuster and capable of being rotated thereby moving the adjuster forward or rearward.

5 an adjuster dial;
 an adjuster in cooperative communication with the
adjuster dial and a trigger mechanism, the adjuster
responsive to rotation of the adjuster dial to alter the
trigger force to release the bow string.

20. A trigger force adjustment mechanism according to claim 19, the trigger force adjustment mechanism further

comprising a compression spring carried between the adjuster and the trigger mechanism.

21. A trigger force adjustment mechanism according to claim 20, the trigger force adjustment mechanism further comprising a locking sleeve carried between the trigger mechanism and the compression spring.

22. A trigger force adjustment mechanism according to claim 21, the locking sleeve urging a plurality of ball bearings against an inner race.

23. In combination with a bow string release, a trigger force adjustment mechanism that is manually adjustable without the use of a tool.

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